## **AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

Claim 1. (Currently Amended) A method of fabricating an X-ray detecting device, comprising the steps of:

providing a thin film transistor and a lower electrode of a storage capacitor on a substrate;

providing an inorganic insulating film over the thin film transistor and over the lower electrode;

providing an organic insulating film over the inorganic insulating film; and simultaneously dry etching the organic insulating film and the inorganic insulating film using a mixed ratio gas that etches the organic insulating film faster than the inorganic insulating film, wherein the mixed ratio gas contains SF<sub>6</sub>, O<sub>2</sub>, O<sub>2</sub>+ Cl<sub>2</sub> and CF<sub>4</sub>.

Claim 2. (Original) The method according to claim 1, wherein an etching rate of the organic insulating film is greater than that of the inorganic insulating film.

Claim 3. (Canceled)

Claim 4. (Currently Amended) The method according to claim [[3]]  $\underline{1}$ , wherein a component ratio of SF<sub>6</sub> to O<sub>2</sub> is about 1:3.

Application No.: 10/025,905

Docket No.: 8733.541.00-US

Claim 5. (Original) The method according to claim 1, further comprising the steps of:

patterning the inorganic insulating film and the organic insulating film to provide a storage insulating film and a first protective film;

3

forming a transparent electrode on the first protective film; forming a second protective film on the first protective film; and providing a pixel electrode on the second protective film.

Claim 6. (Original) The method according to claim 1, wherein said step of providing the thin film transistor includes:

forming a gate electrode on the substrate;

forming a gate insulating film over the substrate and over the gate electrode;

forming a semiconductor layer on the gate insulating film; and

forming source and drain electrodes on the semiconductor layer.

Claim 7. (Original) The method according to claim 1, wherein the inorganic insulating film is made from any one of silicon nitride (SiNx) and silicon oxide (SiOx).

Claim 8. (Original) The method according to claim 1, wherein the organic insulating film is made from any one of an acrylic organic compound, Teflon, BCB (benzocyclobutene), Cytop and PFCB (perfluorocyclobutane).

Claim 9. (Currently Amended) A method of fabricating a semiconductor assembly, comprising the steps of:

Application No.: 10/025,905 4 Docket No.: 8733.541.00-US

providing a thin film transistor and a lower electrode of a storage capacitor on a substrate;

providing a first insulating film over the thin film transistor and over the lower electrode;

providing a second insulating film over the first insulating film; and simultaneously dry etching the first insulating film and the second insulating film using a mixed ratio gas that etches the second insulating film faster than the first insulating film, wherein the mixed ratio gas contains SF<sub>6</sub>, O<sub>2</sub>, O<sub>2</sub>+ Cl<sub>2</sub> and CF<sub>4</sub>.

Claim 10. (Canceled)

Claim 11. (Currently Amended) The method according to claim [[10]]  $\underline{9}$ , wherein a component ratio of SF<sub>6</sub> to O<sub>2</sub> is about 1:3.

Claim 12. (Original) The method according to claim 9, further comprising the steps of:

patterning the first insulating film and the second insulating film to provide a storage insulating film and a first protective film;

forming a transparent electrode on the first protective film; forming a second protective film on the first protective film; and providing a pixel electrode on the second protective film.

Claim 13. (Original) The method according to claim 1, wherein said step of providing the thin film transistor includes:

forming a gate electrode on the substrate;

Application No.: 10/025,905 5 Docket No.: 8733.541.00-US

forming a gate insulating film over the substrate and over the gate electrode; forming a semiconductor layer on the gate insulating film; and forming source and drain electrodes on the semiconductor layer.

Claim 14. (Original) The method according to claim 9, wherein the first insulating film is made from any one of silicon nitride (SiNx) and silicon oxide (SiOx).

Claim 15. (Original) The method according to claim 9, wherein the second insulating film is made from any one of an acrylic organic compound, Teflon, BCB (benzocyclobutene), Cytop and PFCB (perfluorocyclobutane).

Claims 16-20. (Canceled)